

Panasonic®

5.8 GHz Digital Cordless Phone

Operating Instructions

Model No. **KX-TG5050C**

Pulse-or-tone dialing capability



This unit is Call Display compatible. To display the caller's name and phone number, you must subscribe to Call Display service.

PLEASE READ BEFORE USE AND SAVE.

Charge the battery for 6 hours before initial use.

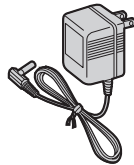
For assistance, please call 1-800-561-5505 or visit us at www.panasonic.ca

Thank you for purchasing your new Panasonic cordless telephone.

Call Display, Call Waiting and Voice Mail service, where available, are telephone company services. After subscribing to Call Display this phone will display a caller's name and phone number. Visual Call Waiting/Call Waiting Deluxe, which displays a second caller's name and phone number while the user is on another call, requires a subscription to both Call Display and Visual Call Waiting services. After subscribing to Voice Mail service, this unit will give you visual indication to let you know when there are messages in the mailbox.

Accessories (included)

☐ AC Adaptor (p. 9)



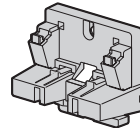
one

☐ Telephone Line Cord (p. 9)



one

☐ Wall Mounting Adaptor (p. 44)



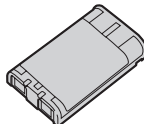
one

☐ Handset Cover (p. 10)



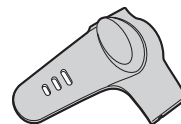
one

☐ Battery (p. 10)



one

☐ Belt Clip (p. 43)

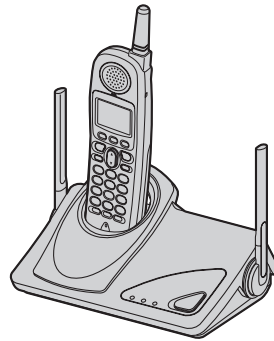


one

For Best Performance

Battery charge

The handset is powered by a rechargeable Nickel-Metal Hydride (Ni-MH) battery. Charge the battery for **6 hours** before initial use (p. 10).

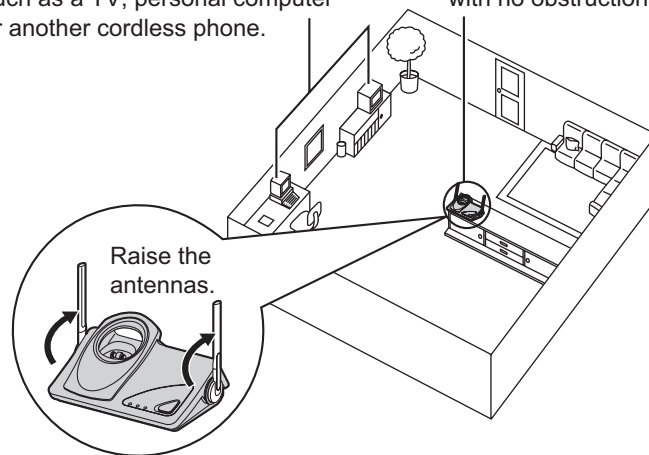


Base unit location/Noise

Calls are transmitted between the base unit and handset using wireless radio waves. **For maximum distance and noise-free operation**, the recommended base unit location is:

Away from electrical appliances such as a TV, personal computer or another cordless phone.

In a HIGH and CENTRAL location with no obstructions such as walls.



Note:

- If you use the handset near a microwave oven which is being used, noise may be heard from the receiver or the speaker. Move away from the microwave oven and closer to the base unit.
- If you use the handset near another cordless phone's base unit, noise may be heard. Move away from the other cordless phone's base unit and closer to your base unit.

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Preparation

Basic Operation

Advanced Operation

Useful Information

Important

Throughout these Operating Instructions, **Handset** and **Base Unit** are used to indicate with which unit an operation can be performed.

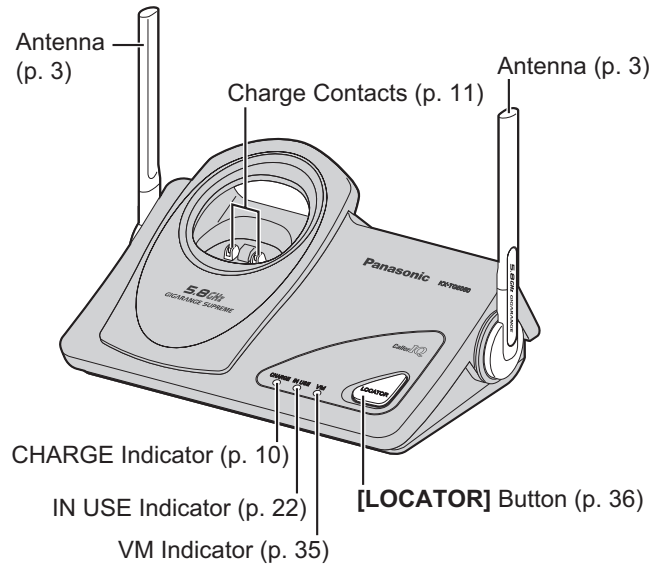
Handset : Perform with the handset.

Base Unit : Perform with the base unit.

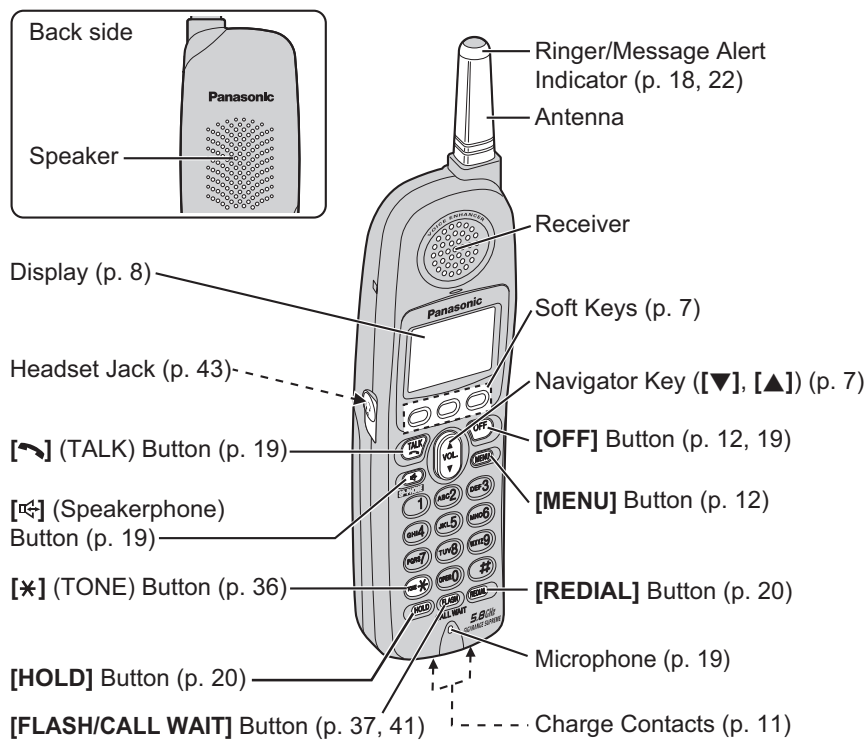
Handset & Base Unit : Perform with the handset and base unit together.

Location of Controls

Base unit



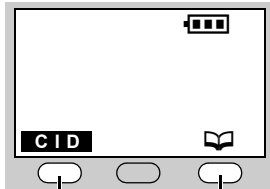
Handset




Location of Controls


How to use the soft keys/navigator key

Handset soft keys




Three soft keys are used to select functions displayed directly above each key. Functions displayed above each key will change depending on the state of use.

On this sample display, “**CID**” and “” are displayed above the soft keys.

Pressing the right soft key selects the Phone Book “”.



Pressing the left soft key reviews caller information in the Caller List “**CID**”.



- When a function name does not appear above a soft key, the soft key has no function.



Throughout these Operating Instructions, the soft keys are indicated by their icons, such as **CID** and .

Handset navigator key



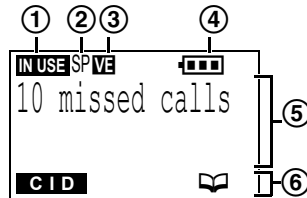
Scrolls up [] and down [] the function menu, the Caller List and the phone book.

Increases [] or decreases [] the handset ringer and receiver/speaker volumes.

Throughout these Operating Instructions, the handset navigator key is indicated by the arrows [] or [].


Display

Handset



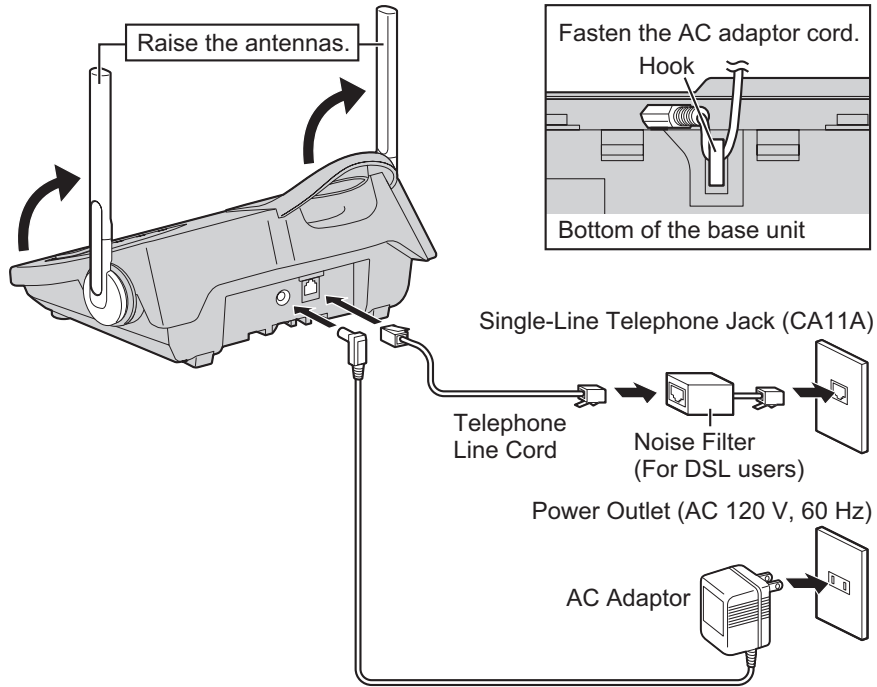
- ① “**IN USE**” functions as follows.

Off (invisible)	The line is free.
On	The line is in use.
Flashing	A call is on hold.
Flashing rapidly	A call is being received.

- ② “SP” is shown when you are using the speakerphone.
- ③ “**VE**” indicates Voice Enhancer mode is on (p. 21).
- ④ The battery icon indicates battery strength (p. 10).
- ⑤ The display shows the dialed number, call status, programming options, phone book items, caller information, etc.
- ⑥ The icons on the bottom line indicate the functions of the corresponding soft keys which are located directly below the display (p. 7).
e.g. The soft key below “” (phone book icon) is used when storing or viewing phone book items (p. 28, 30).

Installation

Connections



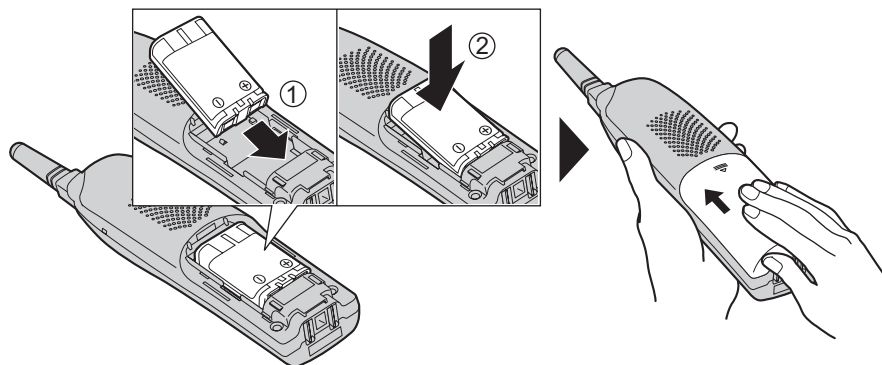
Preparation

- **USE ONLY WITH Panasonic AC ADAPTOR PQLV1.**
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- If your unit is connected to a PBX which does not support Call Display and voice mail services, you cannot access those services.
- This unit will not function during a power failure. We recommend connecting a standard telephone to the same telephone line or to the same telephone jack using a T-adaptor.
- If the unit is connected to a telephone line with DSL service, you may hear noise from the receiver or speaker during conversations or the unit may not display caller's name and/or phone number properly. We recommend the addition of a noise filter (contact your DSL service provider) to the telephone line between the base unit and the telephone line jack.
 1. This option is only for DSL users.
 2. The filter will be supplied by the DSL service provider.

Installation

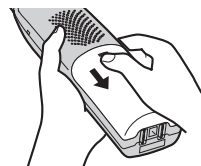
Installing the Battery in the Handset

Insert the battery (①) and press it down until it snaps into the compartment (②). Close the cover.



To replace the battery:

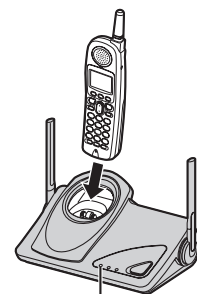
Press the notch on the cover firmly and slide it as indicated by the arrow. Replace the old battery with a new one (p. 11). Close the cover and charge the handset for 6 hours.



Battery Charge

Place the handset on the base unit for **6 hours** before initial use. Repeat charging will require approximately the same amount of charging time (6 hours) if the battery is depleted completely.

- The unit beeps once, the CHARGE indicator lights and "Charging" is displayed.
- When the battery is fully charged, "Charge completed" is displayed if there are no new calls in the Caller List.



CHARGE Indicator

Battery strength

You can confirm the battery strength on the handset display.


Battery strength is indicated by the icons shown in the chart to the right.

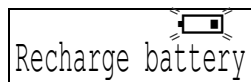
Display prompt	Battery strength
	Fully charged
	Medium
	Low
	Needs to be recharged.
	Discharged



Installation

Recharge



Recharge the battery when:

- “Recharge battery” is displayed on the handset,
- “” flashes, or
- the handset beeps intermittently while it is in use.



- The display will continually indicate “Recharge battery” and/or “” will flash when the handset battery is charged for less than 15 minutes and the handset is lifted off the base unit.
- If the battery has been discharged, the handset will display “Charge for 6 HRS” and “” when you place the handset on the base unit. The handset will not work unless the battery is charged. Continue charging.

Battery replacement:

If you cleaned the charge contacts and fully charged the battery, but after a few telephone calls, “Recharge battery” is displayed and/or “” continues to flash, or “Charge for 6 HRS” and “” are displayed, the battery may need to be replaced. Please replace with a new Panasonic HHR-P104 battery. To replace the battery, see page 10.


A nickel metal hydride battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.



Battery information

After your Panasonic battery is fully charged, you can expect the following performance:

Operation	Operating time
While in use (TALK)	Up to 5 hours
While not in use (Standby)	Up to 11 days
While using the Clarity Booster feature (p. 21)	Up to 3 hours

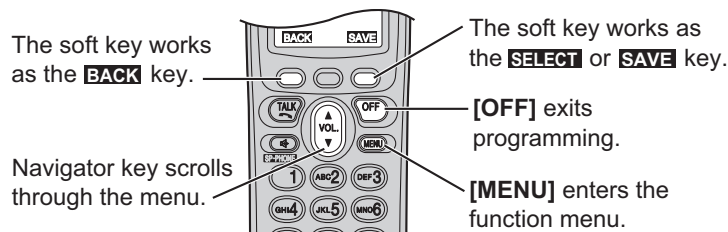
- A fully charged battery will give you up to 5 hours of continuous talk time, or keep your handset in Standby mode to receive incoming calls for up to 11 days (if no phone calls are made). Battery power is consumed whenever the handset is off the base unit, even when the handset is not in use. The longer you leave the handset off the base unit, the time you can actually talk on the handset will be shortened. Actual battery performance depends on a combination of how often the handset is in TALK mode and how often it is in Standby mode.
- **Clean the charge contacts of the handset and the base unit with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity,** otherwise, the battery may not charge properly.
- If the battery is fully charged, you do not have to place the handset on the base unit until “Recharge battery” is displayed and/or “” flashes. This will maximize the battery life.
- If you want to keep the battery fully charged at all times, place the handset on the base unit when the handset is not being used. The battery cannot be overcharged.
- When the Clarity Booster feature is turned on automatically or manually, battery operating time may be shortened (p. 21).

Preparation

Programmable Settings

Programming Guidelines **Handset**

This unit has several programmable functions which can be selected from the function menu on the display (p. 13).

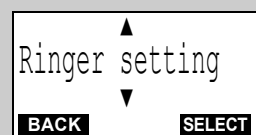


How to select a function item from the menu

Make sure the handset and base unit are not being used. The handset must be operated near the base unit and while off the base unit.

1 Press [MENU].

- The main menu is displayed (p. 13).



2 Scroll to the desired item by pressing [▼] or [▲].

3 Press the soft key (**SELECT**) to select the desired item.

4 If the item has a sub-menu, select the menu item (p. 13). Repeat steps 2 and 3 until the desired item is displayed. If the item has no sub-menu, go to step 5.

5 Select the desired setting by pressing [▼] or [▲], then press the soft key (**SAVE**).

- A confirmation tone will be heard and the setting will be saved.



6 Press [OFF] to exit programming mode.

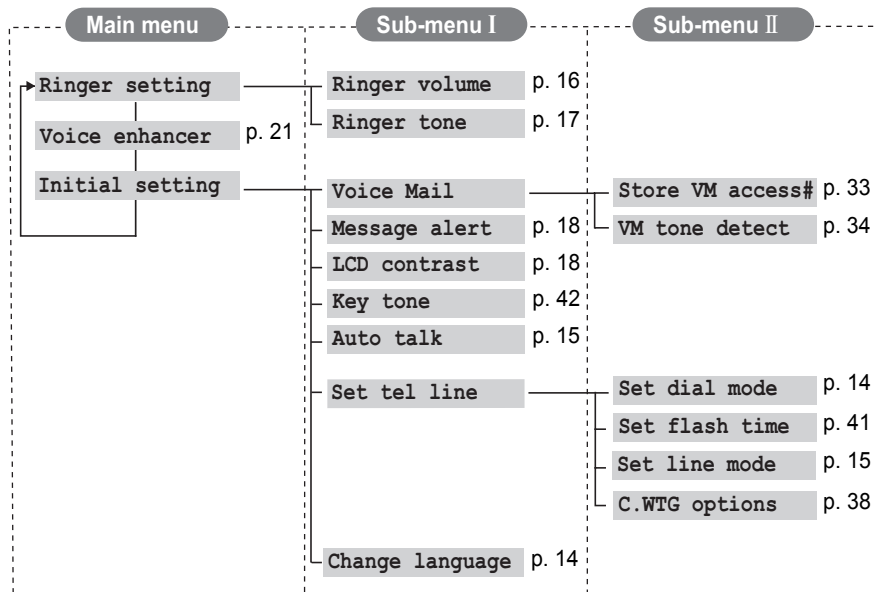
- To go back to the previous menu, press the soft key (**BACK**), or press the soft key (**SELECT**) while "--- (Go back) ---" is displayed. If you press this key in the main menu, the unit will exit programming mode.
- After programming is complete, the display will return to the main menu or the sub-menu depending on the menu in which the selected item is located. (See the menu table on page 13.)
- You can exit programming mode at any time by pressing [OFF].
- If you do not press any button for 60 seconds, the unit will exit programming mode.
- If the unit detects a problem, an error message will be displayed (p. 48) and/or error beeps will sound.

Programmable Settings

Function Menu Table **Handset**

You can use the following functions to customize your unit. See the corresponding pages for function details.

- After pressing **[MENU]**, you can also program menu items directly by pressing **[0]** to **[9]**, and **[#]** instead of using the soft keys (p. 47).



Preparation

Programmable Settings

Display Language **Handset**

You can select either “English” or “Français” (French) as the display language. The factory preset is “English”.

1 Press **[MENU]**.

2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Initial setting

3 Scroll to “Change language” by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Change language

4 To change from English to French, press the soft key **(FRANÇ.)**.
To change from French to English, press the soft key **(ENGLISH)**.

Display
:English

- The display changes to the selected language.
- You can also select the display language by pressing **[▼]** or **[▲]**.

5 When French is selected, press the soft key **(SAUV.)**, then press **[OFF]**.
When English is selected, press the soft key **(SAVE)**, then press **[OFF]**.

- If you select a language you cannot read, change the display language again using direct commands (p. 47).

Dialing Mode **Handset**

If you have touch tone service, set the dialing mode to “Tone”. For rotary or pulse service, set to “Pulse”. The factory preset is “Tone”.

1 Press **[MENU]**.

2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Initial setting

3 Scroll to “Set tel line” by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Set tel line

4 Press the soft key **(SELECT)** at “Set dial mode”.

Set dial mode

5 Select “Pulse” or “Tone” by pressing **[▼]** or **[▲]**.

Set dial mode
:Tone

6 Press the soft key **(SAVE)**, then press **[OFF]**.

Programmable Settings

Line Mode **Handset**

The line mode is preset to "B" and generally should not be adjusted. If "IN USE" is not displayed on the handset properly, the line mode selection is incorrect. Set line mode to "A".

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Initial setting

3 Scroll to "Set tel line" by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Set tel line

4 Scroll to "Set line mode" by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Set line mode

5 Select "A" or "B" by pressing **[▼]** or **[▲]**.

Set line mode
:B

6 Press the soft key **(SAVE)**, then press **[OFF]**.

Preparation

Auto Talk **Handset**

The Auto Talk feature allows you to answer calls by simply lifting the handset off the base unit. You do not need to press **[📞]** or **[📞]**. The factory preset is OFF.

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Initial setting

3 Scroll to "Auto talk" by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Auto talk

4 Select "On" or "Off" by pressing **[▼]** or **[▲]**.

Auto talk
:Off

5 Press the soft key **(SAVE)**, then press **[OFF]**.

- In order to view caller information after you lift the handset to answer a call, leave the Auto Talk feature turned off.

Programmable Settings

Ringer Volume **Handset**

You can set the handset ringer volume to high, medium, low, or off. The factory preset is HIGH. If set to off, the handset will not ring for outside calls.

1 Press **[MENU]**.

2 Press the soft key (**SELECT**) at "Ringer setting".

Ringer setting


3 Press the soft key (**SELECT**) at "Ringer volume".

Ringer volume

4 Select the desired volume by pressing **[▼]** or **[▲]**.

- The volume will change and ring.
- The number of steps indicates the volume level.
- **To turn the ringer off**, press **[▼]** repeatedly until "Off ?" is displayed.

e.g. High

Ringer volume
Low  High

e.g. Off

Ringer volume
Off ?

5 Press the soft key (**SAVE**).

- If the handset ringer is turned off, the handset displays "Ringer off" while not in use. When there are new messages in your voice mailbox (p. 35), "Ringer off" is not displayed.
- You can also adjust the ringer volume while an outside call is ringing. Press **[▼]** or **[▲]** while the handset is ringing.

Temporary ringer off

While the handset is ringing for an outside call, you can turn the ringer off temporarily by pressing **[OFF]**. The handset will ring again as usual the next time a call is received.

Programmable Settings

Ringer Tone **Handset**

You can set the handset ringer to use one of 7 ringer patterns for outside calls. "Tone 1" to "Tone 3" are bell ringer patterns. "Melody 1" to "Melody 4" are preset melody patterns. The factory preset is "Tone 1".

- If you subscribe to a Distinctive Ring Service from your telephone company with 2 or 3 distinct rings, select a bell ringer pattern (Tone 1 to 3). If you select a melody pattern, you will not be able to distinguish lines by their ringers.
- If you select one of the melody ringer patterns, the ringer will continue to sound for several seconds if:
 - the caller hangs up before you answer the call, or
 - another person answers the call using another phone connected on the same line.

Preparation

1 Press **[MENU]**.

2 Press the soft key (**SELECT**) at "Ringer setting".

Ringer setting

3 Scroll to "Ringer tone" by pressing **[▼]** or **[▲]**, then press the soft key (**SELECT**).

Ringer tone

4 Select the desired ringer tone by pressing **[▼]** or **[▲]**.

- The handset will ring and the ringer tone will change. If the ringer volume has been turned off, the handset will not ring (p. 16).
- You can also select the ringer tone by pressing **[1]** to **[7]**.

Ringer tone
1:Tone 1

5 Press the soft key (**SAVE**), then press **[OFF]**.

Programmable Settings

LCD Contrast **Handset**

There are 6 levels of LCD contrast. The factory preset is "level 3".

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press the soft key (**SELECT**).


Initial setting

3 Scroll to "LCD contrast" by pressing **[▼]** or **[▲]**, then press the soft key (**SELECT**).

LCD contrast

4 Select the desired contrast by pressing **[▼]** or **[▲]**.

e.g. Level 3

LCD contrast
Low  High

- The contrast will change.
- The number of steps indicates the contrast level.

5 Press the soft key (**SAVE**), then press **[OFF]**.

Message Alert **Handset**

You can select whether or not the Ringer/Message Alert indicator on the handset will flash slowly when new messages in your voice mailbox have been recorded (p. 35). The factory preset is OFF.

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press the soft key (**SELECT**).

Initial setting

3 Scroll to "Message alert" by pressing **[▼]** or **[▲]**, then press the soft key (**SELECT**).

Message alert

4 Select "On" or "Off" by pressing **[▼]** or **[▲]**.

Message alert
:Off

5 Press the soft key (**SAVE**), then press **[OFF]**.

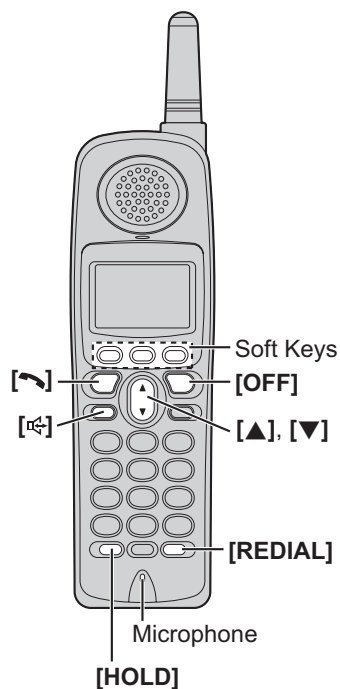
- The Ringer/Message Alert indicator will not flash for new messages while the handset is in use.
- The Ringer/Message Alert indicator acts as a ringer indicator and as a message alert indicator. This indicator will flash rapidly when a call is received whether this feature is on or off.
- Battery operating time may be shortened when using this feature (p. 11).

Making Calls

- 1 Press [**📞**].
 - "Talk" is displayed.
- 2 Dial a phone number.
 - The dialed number is displayed.
 - After a few seconds, the display will show the length of the call.
- 3 To hang up, press [**OFF**] or place the handset on the base unit.

To have a hands-free phone conversation

- 1 Press [**📞**].
 - "SP-phone" is displayed.
- 2 Dial a phone number.
 - The dialed number is displayed.
 - After a few seconds, the display will show the length of the call.
- 3 When the other party answers, speak into the microphone.
- 4 To hang up, press [**OFF**] or place the handset on the base unit.



Basic Operation

Hands-free Digital Duplex Speakerphone

For best performance, please note the following:

- Speak alternately with the other party in a quiet room.
- If you or the other party has difficulty hearing, press [**▼**] to decrease the speaker volume.
- While talking using [**📞**], you can switch to a hands-free phone conversation by pressing [**📞**]. To switch back to the receiver, press [**📞**].

Making Calls

To dial after confirming the entered number

1. Enter a phone number.

3334444

- If you misdial, press the soft key **[CLEAR]**. Enter the correct phone number.
- If a pause is required when dialing, press the soft key **[PAUSE]** where needed (p. 37).
- To cancel, press **[OFF]**.

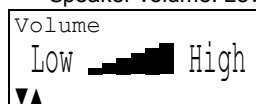
2. Press **[↶]** or **[↷]**.
3. To hang up, press **[OFF]** or place the handset on the base unit.

To adjust the receiver/speaker volume during a conversation

There are 3 volume levels for the receiver and 6 volume levels for the speaker.

To increase volume, press **[▲]**.
To decrease volume, press **[▼]**.

e.g. Receiver volume: High
Speaker volume: Level 6



- The display shows the current volume setting.
- If you try to increase/decrease volume when it is at the maximum/minimum level, the handset will beep 3 times.

To redial the last number dialed

Press **[↶]** or **[↷]**, then press **[REDIAL]**.

To redial using the redial list (Memory Redial)

The last 5 phone numbers dialed are stored in the redial list.

1. Press **[REDIAL]**.

- The last number dialed is displayed.

2. Scroll to the desired number by pressing **[▼]** or **[▲]**.

- You can also scroll down through the list by pressing **[REDIAL]**.
- To exit the list, press **[OFF]**.

3. Press **[↶]** or **[↷]**.

- **To erase an item**, scroll to the item then press the soft key **[ERASE]**.
- If "No items stored" is displayed, the list is empty.

To put a call on hold

Press **[HOLD]** during a conversation.

- "Hold" is displayed.

To return to the call, press **[↶]** or **[↷]**.

- If another phone is connected on the same line (p. 9), you can also take the call by lifting its handset.
- If a call is kept on hold for 6 minutes, an alarm tone will start to sound and the Ringer/Message Alert indicator will start to flash rapidly. After 4 additional minutes on hold, the call will be disconnected.

Making Calls

Voice Enhancer Technology

Panasonic's Voice Enhancer Technology clarifies the voice of the person you are talking to, reproducing a more natural-sounding voice that is easier to hear and understand.

Voice Enhancer Technology can be turned on or off. The factory preset is OFF.

- Depending on the condition and quality of your telephone line, this feature may intensify existing line noise. If it becomes difficult to hear, turn this feature off.

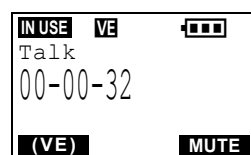
To turn this feature on, press the soft key **(VE)** during a conversation.

- "**VE**" is displayed.
- To turn this feature off**, press the soft key **(VE)** again. "**VE**" disappears from the display.

- After hanging up a call, the on/off setting will be retained.

When the handset is not in use, you can also turn this feature on or off by programming as follows:

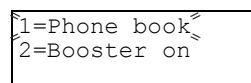
- Press **[MENU]**.
- Scroll to "Voice enhancer" by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.
- Select "On" or "Off" by pressing **[▼]** or **[▲]**.
- Press the soft key **(SAVE)**, then press **[OFF]**.



Clarity Booster

This feature can improve sound clarity when the handset is used in an area where there may be interference. During an outside call, this feature will be turned on automatically when necessary. This feature will turn off when you hang up or put a call on hold. It will not turn off automatically during a call. You can also turn this feature on or off manually.

- Press **[MENU]** during an outside call.
- Press **[2]** to select "2=Booster on" or "2=Booster off".



- You can also select "2=Booster on" or "2=Booster off" by pressing **[▼]** then pressing the soft key **(SELECT)**.
- While this feature is turned on, "Booster on" will flash during a conversation.
- If this feature is turned off manually during a call, it will not be turned on automatically during the same call.
- When this feature is turned on automatically or manually, battery operating time may be shortened (p. 11).

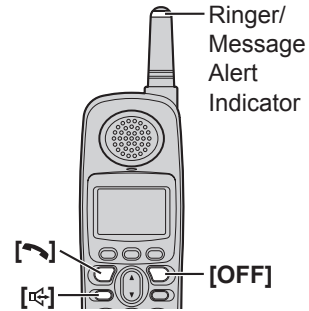
Backlit LCD display/Lighted handset keypad

The handset display and dialing buttons will light for a few seconds after pressing a button or lifting the handset off the base unit. They will also light when a call is being received.

Answering Calls

When a call is received, the unit rings, "Incoming call" is displayed, and the Ringer/Message Alert indicator on the handset and the IN USE indicator on the base unit flash rapidly.

- 1 Press [] or [].
 - You can also answer a call by pressing any button except [, [, or [OFF].
- 2 To hang up, press [OFF] or place the handset on the base unit.



Auto Talk

If the Auto Talk feature is turned on (p. 15), you can answer a call by simply lifting the handset off the base unit.

Temporary ringer off

While the handset is ringing for an outside call, you can turn the ringer off temporarily by pressing [OFF]. The handset will ring again as usual the next time a call is received.

- If the ringer volume is turned off, the unit will not ring (p. 16).

Call Display Service

This unit is compatible with Call Display services offered by your telephone company. If you subscribe to Call Display service, caller names and phone numbers will be displayed and recorded in the Caller List.

How caller information is displayed

When a call comes in, the unit will ring and caller information will be received. The handset display will show the caller's information.*

Example

ROBINSON, TINA
555-222-3333

- After you answer the call, the display will show the length of the call.

*Personalized Name Display

If you receive a call from one of the phone numbers stored in the phone book, the handset will show the caller's name stored in the phone book instead of incoming caller's name.

- If the unit does not receive caller information, one of the following will be displayed:

Display	Meaning
Unavailable Name & No.	The caller dialed from an area which does not provide Call Display service.
Private caller	The caller requested not to send his/her information.
Long distance	The caller made a long distance call.

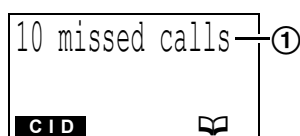
- Depending on radio communications with the base unit, the handset may not display caller information immediately after the first ring.
 - If your unit is connected to a PBX which does not support Call Display services, you cannot access Call Display service.
 - Name display service may not be available in some areas. For further information, please contact your telephone company.
 - If you subscribe to both Call Display and Visual Call Waiting services, when a second call is received while talking, a call waiting tone will be heard and the second caller's information will be displayed (p. 37).
- Contact your telephone company for details about availability in your area, and to verify that Visual Call Waiting service is activated on your telephone line.

Basic Operation

Using the Caller List

This unit can record information for up to 50 different callers and store this information in the Caller List. Caller information is sorted by the most recent call to the oldest. When the 51st call is received, the information from the 1st call is deleted.

The unit will also tell you how many calls you missed while you were out or unavailable to answer the phone.



② Stands for caller identification

- ① The display will show the number of calls you missed.
- ② Press the soft key (**CID**), [**▼**], or [**▲**] to review calls logged in the Caller List.
 - If there are no items in the Caller List, "**CID**" will not be displayed.
 - After viewing the missed call entries, "missed calls" will disappear from the display.

Viewing the Caller List **Handset**

- 1 Press the soft key (**CID**), [**▼**], or [**▲**] to enter the Caller List.

e.g. 10 calls missed.

Caller list
10 missed calls
▼▲=Scroll list

- 2 To search from the most recent call, press [**▼**]. To search from the oldest call, press [**▲**].
 - The caller's name, number and the time and date of the call are displayed.

Example

SMITH, JACK
555-333-4444
3:10P JUN.10

- 3 Press [**OFF**] to exit the list.

- If there is no name information for a caller and you have not stored that name and phone number in the phone book, the display will only show the phone number.
- If you do not press any button for 60 seconds, the unit will exit the Caller List.

Using the Caller List

What “√” means

“√” indicates you have already viewed this caller information or answered the call. If the same caller calls again, the call entry with the “√” will be replaced with the new call entry.

SMITH, JACK
555-333-4444
3:10P JUN.10 √

If a caller calls more than once

The number of times the same caller called is displayed (“×2” to “×9”). The date and time of the most recent call will be recorded. After viewing a caller’s information, “×2” to “×9” will be replaced with “√”.

e.g. Called 3 times.

TURNER, CINDY
555-456-7890
11:20A JAN.12 ×3

Calling Back from the Caller List **Handset**

1 Press the soft key (**CID**), [**▼**], or [**▲**] to enter the Caller List.

2 Scroll to the desired caller by pressing [**▼**] or [**▲**].

3 Press [**↶**] or [**↷**].

- The phone number is dialed.

- In some cases, you may have to edit the number before dialing (p. 26). (e.g. You may have to add “1” for long distance calls.)
- If a phone number is not displayed in the caller information, you cannot call that caller back from the Caller List.

Using the Caller List

Editing the Caller's Phone Number **Handset**

You can edit a phone number in the Caller List by adding the long distance code "1" or removing its area code.

1 Press the soft key (**CID**), [**▼**], or [**▲**] to enter the Caller List.

2 Scroll to the desired caller by pressing [**▼**] or [**▲**].

PARKER, FRED
555-321-5555

3 Press the soft key (**EDIT**) repeatedly until the number is shown in the desired format.

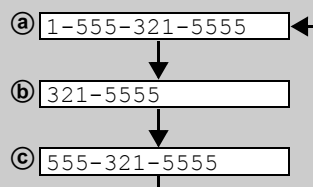
- Each time you press the soft key (**EDIT**), the number is rearranged into one of 3 patterns.

Ⓐ 1- [Area code] - [Phone no.]

Ⓑ [Phone no.]

Ⓒ [Area code] - [Phone no.]

- The order in which patterns Ⓐ-Ⓒ are displayed depends on how the telephone number is displayed in step 2.



4 To call the edited number, press [**↶**] or [**☎**].

To save the edited number into the phone book, press the soft key (**SAVE**).

- If there is no name information, proceed from step 3 to "Storing Caller Information in the Phone Book" on page 27.

- The number edited in step 3 will not be maintained in the Caller List.
- If you receive a call from a 7-digit phone number stored in the phone book, "**EDIT**" will not be displayed when the caller information is displayed.

Using the Caller List

Storing Caller Information in the Phone Book **Handset**

Caller names and phone numbers that are in the Caller List can be stored in the phone book.

- 1 Press the soft key (**CID**), [**▼**], or [**▲**] to enter the Caller List.
 - 2 Scroll to the desired caller by pressing [**▼**] or [**▲**].
 - If the number requires editing, see page 26.
 - 3 Press the soft key (**SAVE**).
 - If there is no name information for the caller, "Enter name" will be displayed.
 - You can enter a name by performing the following steps:
 - (1) enter the name (p. 29),
 - (2) press [**▼**], and
 - (3) press the soft key (**SAVE**).
 - If a name is not required, press [**▼**], then press the soft key (**SAVE**).
 - To continue storing other items, repeat from step 2.
 - To exit programming mode, press [**OFF**].
- You cannot store Caller List items in the phone book if a phone number is not displayed.

Erasing Caller Information **Handset**

To erase a specific caller

- 1 Press the soft key (**CID**), [**▼**], or [**▲**] to enter the Caller List.
- 2 Scroll to the desired caller by pressing [**▼**] or [**▲**].
- 3 Press the soft key (**ERASE**).
 - "Erased" is displayed.
 - To erase other items, repeat from step 2.
 - To exit the Caller List, press [**OFF**].

To erase all entries

- 1 Press the soft key (**CID**), [**▼**], or [**▲**] to enter the Caller List.
 - Before erasing all entries, make sure that "0 missed call" is displayed.
- 2 Press the soft key (**ERASE**).
 - "All erase?" is displayed.
 - To cancel erasing, press the soft key (**NO**).
- 3 Press the soft key (**YES**).
 - "All erased" is displayed and all entries in your Caller List are erased.

Phone Book

The handset can store up to 50 names and phone numbers in its phone book. You can make a call by selecting a name or number from the phone book.

Storing Names and Numbers **Handset**

1 Press the soft key (📖).

- The display will show the number of stored items.

Phone book
10 items
0-9=Name search
▼▲=Scroll list

2 Press the soft key (**ADD**).

3 Enter a name of up to 16 characters with the dialing buttons ([0] to [9]) (p. 29), then press [▼].

- To move the cursor, press the soft key (◀) or (▶).
- If a name is not required, press [▼] then go to step 4.

Enter name
Tom
▼=Next

4 Enter a phone number of up to 32 digits.

- To delete a digit, press the soft key (**CLEAR**). To erase all of the digits, press and hold the soft key (**CLEAR**).

Enter phone no.
5557654321
▼=Next

5 Press [▼].

- If you want to change the name, press the soft key (**EDIT**). The display returns to step 3. Change the name.
- If you want to change the number, press [▲]. The display returns to step 4. Change the number.

Tom
555-765-4321

6 Press the soft key (**SAVE**).

- To continue storing other items, repeat from step 2.

7 Press [OFF].



- If a pause is required when dialing, press the soft key (**PAUSE**) in step 4. A pause is stored in a phone number as one digit (p. 37).
- To store numbers for calling card access (see "Chain Dial" on page 31), we recommend that you add pauses after each item. Storing pauses with numbers will prevent misdialing (p. 37). The delay time necessary will depend on your telephone company.

Phone Book


Selecting characters to enter names

Enter names using the dialing buttons. Press each button until the desired character is displayed.

- Pressing each button selects a character in the order shown below.

Keys	Characters	Keys	Characters
[1]	# & ' () * , - . / 1	[6]	m n o M N O 6
[2]	a b c A B C 2	[7]	p q r s P Q R S 7
[3]	d e f D E F 3	[8]	t u v T U V 8
[4]	g h i G H I 4	[9]	w x y z W X Y Z 9
[5]	j k l J K L 5	[0]	0 Space
	Moves the cursor to the left.		
	Moves the cursor to the right. (To enter another character using the same number key, move the cursor to the next space.)		

For example, to enter "Tom":



- Press [8] four times.
- Press [6] three times, then press the soft key () to move the cursor.
- Press [6] once.

T

To

Tom

If you make a mistake while entering a name or number

- Press the soft key () or () to move the cursor to the incorrect character.
- Press the soft key (**CLEAR**) to delete the character.
 - Each time you press the soft key (**CLEAR**), a character is erased.
 - To erase all characters, press and hold the soft key (**CLEAR**).
- Enter the correct character.

Advanced Operation

Phone Book

Dialing from the Phone Book **Handset**

1 Press the soft key (☰).

- The display shows the number of stored items.
- You can press the soft key (**SEARCH**) to view the first item.

Phone book
10 items
0-9=Name search
▼▲=Scroll list

2 Scroll to the desired item. To scroll down, press [▼]. To scroll up, press [▲].

Phone book items are sorted in the following order:

1	Alphabet letters (Alphabetical)
2	Space & ' () , - . /
3	Numbers 0 to 9
4	# *
5	Telephone numbers (If no name is stored)

Frank
555-456-7890

3 Press [↶], [↷], or the soft key (**CALL**).

- The phone number is dialed.

- If "No items stored" is displayed in step 1, the phone book is empty.
- To exit the phone book, press **[OFF]**.

To search for a name by initial

1. Press the soft key (☰).

2. Press the dialing button for the first letter of the desired name until any name with the same initial is displayed (see the Index table below).

e.g. To find "Frank", press **[3]** repeatedly until the first item under "F" is displayed.

- If there are no items beginning with the character you selected, the first item in the next alphabetical index will be displayed.

3. Press [▼] repeatedly until the desired name is displayed.

Index table

Keys	Index	Keys	Index
[1]	Symbols, 1	[6]	M, N, O, 6
[2]	A, B, C, 2	[7]	P, Q, R, S, 7
[3]	D, E, F, 3	[8]	T, U, V, 8
[4]	G, H, I, 4	[9]	W, X, Y, Z, 9
[5]	J, K, L, 5	[0]	0, Space

Phone Book

Chain Dial **Handset**

You can dial a combination of phone book or manual key pad entries while making a call. This feature can be used, for example, to first automatically dial a calling card access number that you have stored in the phone book, then manually or automatically dial your PIN and then automatically dial the destination number from the phone book.

e.g. Using a long distance calling card

- To prevent misdialing, we recommend you add pauses where needed when storing numbers. For example, add pauses after a calling card access number and your PIN when storing in the phone book (p. 28).

- Search and dial from the phone book: 1-800-012-3456 (Calling card access number)
 - Voice guidance may be activated.
- Search and dial from the phone book: 1234 (Calling card PIN)
- Search and dial from the phone book: 1-555-012-3456 (Destination Number)

- 1 While you are on a call;**
Press **[MENU]**.

1=Phone book
2=Booster on

- 2 Press the soft key (**SELECT**)** at "1=Phone book", or press **[1]**.

Phone book
30 items
0-9=Name search
▼▲=Scroll list

- 3 Search for the desired item by pressing [▼] or [▲].**
 - To search for an item by initial, see page 30.

Alan
1-555-012-3456


- 4 Press the soft key (**CALL**).**
 - The phone number is dialed.
 - If required, repeat steps 1 to 4 for any remaining numbers.

- If you have rotary or pulse service, you need to press **[*]** before pressing **[MENU]** in step 1 to temporarily change the dialing mode to tone.

Advanced Operation

Phone Book

Editing an Item in the Phone Book **Handset**

1 Press the soft key (.

2 Scroll to the desired item by pressing [**▼**] or [**▲**].



- To search for the item by initial, see page 30.

Jane
456-7890

3 Press the soft key (**EDIT**).

Enter name
Jane
▼=Next

4 Edit the name (p. 29), then press [**▼**].

- If you do not need to change the name, press [**▼**] then go to step 5.
- To move the cursor, press the soft key () or (.

Enter name
Jane Walker
▼=Next

5 Edit the phone number, then press [**▼**].

- If you do not need to change the number, press [**▼**] then go to step 6.
- To delete a digit, press the soft key (**CLEAR**).
To delete all of the digits, press and hold the soft key (**CLEAR**).


Enter phone no.
5554567890
▼=Next

6 Press the soft key (**SAVE**).

- To continue editing other items, repeat from step 2.

7 Press [**OFF**].

Erasing an Item in the Phone Book **Handset**

1 Press the soft key (.

2 Scroll to the desired item by pressing [**▼**] or [**▲**].

- To search for the item by initial, see page 30.

3 Press the soft key (**ERASE**).

- To cancel erasing, press the soft key (**NO**).

Erase?

4 Press the soft key (**YES**).

- To erase other items, repeat from step 2.

Erased

5 Press [**OFF**].

Voice Mail Service

Voice mail is an automatic answering service offered by your telephone company. If you subscribe to this service, your telephone company's voice mail system can answer calls for you when you are unavailable to answer the phone or when your line is busy. Callers can leave messages that are saved in virtual voice mailboxes, which are maintained for you by the phone company, allowing you to listen to your messages whenever you like.

The unit will let you know that someone has left voice mail for you (p. 35).

Once you have stored your voice mail access number, you can access your voice mailbox simply by pressing the soft key (**VM**), then pressing [**↶**] or [**↷**] on the handset.

Storing a Voice Mail Access Number **Handset**

1 Press [**MENU**].

2 Scroll to "Initial setting" by pressing [**▼**] or [**▲**], then press the soft key (**SELECT**).

Initial setting

3 Press the soft key (**SELECT**) at "Voice Mail".

Voice Mail

4 Press the soft key (**SELECT**) at "Store VM access#".

Store VM access#

5 Enter your access number, up to 32 digits.

- If a pause is required for dialing, press the soft key (**PAUSE**)*.
- Each time you press the soft key (**CLEAR**), a digit is erased. To erase all of the digits, press and hold the soft key (**CLEAR**).

Example

Store VM access#
1234567PPP890

6 Press the soft key (**SAVE**), then press [**OFF**].

- "**VM**" is displayed.

*To prevent misdialing, you may add pauses between your voice mail access number and your mailbox password in step 5.

e.g. 222-333-4444 PPPP 8888

Your voice mail access number

Pauses

Your mailbox password

Pressing the soft key (**PAUSE**) once creates a 3.5 second delay and counts as one digit. The delay time necessary between entering your access number and entering your mailbox password will depend on your telephone company.

Advanced Operation

Voice Mail Service

To erase a stored voice mail access number

Repeat steps 1 to 4 on page 33, then press and hold the soft key (**CLEAR**) until all of the digits are erased. Press the soft key (**SAVE**), then press **[OFF]**.

Setting Voice Mail (VM) Tone Detection **Handset**

Your telephone company sends special signals (Voice mail tones) to the unit. Press **[📞]** or **[📞]** to listen to the dial tone. If you hear a series of dial tones followed by a continuous dial tone, this indicates that a new message was recorded. Voice Mail detection is preset at the factory to OFF. Minutes after you hang up or after the phone stops ringing, your unit will check the phone line to see if a message has been recorded. If a new message was recorded at your telephone company, "Voice Mail" will be displayed on the handset, the Ringer/Message Alert indicator on the handset will flash slowly if Message Alert is turned on (p. 18), and the VM indicator will flash on the base unit.

Leave this feature off when:

- you do not subscribe to a voice mail service,
- your telephone company does not send a series of tones followed by a continuous tone to indicate that you have new voice mail, or
- your phone is connected to a business or office telephone system (PBX).

See below to turn this setting on.

If you are not sure which setting is required, consult your local telephone company or contact the Panasonic Customer Call Centre.

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press the soft key (**SELECT**).

Initial setting

3 Press the soft key (**SELECT**) at "Voice Mail".

Voice Mail

4 Scroll to "VM tone detect" by pressing **[▼]** or **[▲]**, then press the soft key (**SELECT**).

VM tone detect

5 Select "On" or "Off" by pressing **[▼]** or **[▲]**.

VM tone detect
:Off

6 Press the soft key (**SAVE**), then press **[OFF]**.

Voice Mail Service

Listening to Voice Mail Messages **Handset**

The unit will let you know that someone has left a new voice mail for you:

- (a) the VM indicator will flash on the base unit,
- (b) "Voice Mail" will be displayed on the handset,
- (c) "VM" will flash on the handset, and
- (d) the Ringer/Message Alert indicator on the handset will flash slowly if Message Alert is turned on (p. 18) and the handset is not in use.

To listen to your voice mail message(s)

- 1 Press the soft key (**VM**), then press [**↶**] or [**↷**].

- "Dial VM access#" is displayed and the number is dialed (p. 33).
- If the handset beeps 3 times and "Store VM access#" is displayed, a voice mail access number has not been stored. To store the number, see page 33.

Voice Mail

VM

- 2 Follow the pre-recorded instructions.

- 3 When finished, press [**OFF**].

- After listening to your message(s), "VM" stops flashing but remains on the handset display.
- If the handset and base unit still indicate you have new messages even after you have listened to them, turn the voice mail indicators off by pressing and holding [**OFF**] until the handset beeps. "Voice Mail" will disappear and "VM" stops flashing but remains on the handset, and the Ringer/Message Alert indicator on the handset and the VM indicator on the base unit will go out.
- If your voice mail service uses a voice mail tone and the recorded message is over 3 minutes long, the handset and base unit may not indicate you have new messages.
- If your voice mail service uses a voice mail tone, the tone will be heard from any parallel connected phone. If you use another phone to retrieve messages, you have to dial your access number manually.

Advanced Operation

Special Features

Handset Locator **Base Unit**

You can locate the handset or page the handset user from the base unit with beep tones.

- 1 Press **[LOCATOR]** to page the handset.
 - The IN USE indicator on the base unit and the Ringer/Message Alert indicator on the handset flash rapidly.
 - The paged handset will ring for 1 minute and display "Call from Base".
- 2 To stop paging,

Base unit:
Press **[LOCATOR]**.
OR
Handset:
Press **[OFF]**.

 - You can also stop paging by pressing any button except **[▼]** or **[▲]**.

Muting Your Conversation **Handset**

During a call, you can mute your phone so the other party cannot hear you. When muting your conversation, you can hear the other party.

Press the soft key (**MUTE**).

- "Mute" will be displayed for a few seconds and "**MUTE**" will flash.
- **To release mute**, press the soft key (**MUTE**) again.
- If you press **[↶]** or **[↷]** to switch between the receiver and speaker, mute will be released.

Temporary Tone Dialing (For Rotary or Pulse Service Users) **Handset**

Press **[✳]** (TONE) before entering access numbers which require tone dialing.

- The dialing mode changes to tone. You can enter numbers to access an answering service, electronic banking service, etc. When you hang up, the dialing mode will return to pulse.

Special Features

Using the PAUSE Button (For PBX Line/Long Distance Calls)

Handset

We recommend that you press the soft key (**PAUSE**) if a pause is required for dialing with a PBX or to make a long distance call.

- "**PAUSE**" is displayed on the handset only when dialing before pressing [**↩**] or [**⏏**] (p. 20), or storing numbers in the phone book (p. 28).

e.g. Line access number **[9]** (PBX)

[9] ➔ Soft key (**PAUSE**) ➔ Phone number

- Pressing the soft key (**PAUSE**) once creates a 3.5 second pause. This prevents misdialing when you dial after confirming the entered number (p. 20) or dial a stored number (p. 30, 31).
- Pressing the soft key (**PAUSE**) more than once increases the length of the pause between numbers.

For Call Waiting Service Users **Handset**

Press [**FLASH/CALL WAIT**] if you hear a call waiting tone during a conversation.

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press [**FLASH/CALL WAIT**] again.
- Call Waiting service cannot be used when the first call is put on hold.
- If this function does not operate properly, consult your telephone company for details.

Visual Call Waiting Service **Handset**

If you subscribe to both Call Display and Visual Call Waiting services, when a second call is received while talking, the second caller's information will be displayed. After you hear a call waiting tone while talking, the display shows the caller's name with the phone number and "Waiting".

BROWN, NANCY
555-666-7777
----Waiting----

- The second caller's information will not be displayed when a parallel connected telephone is in use.
- Contact your telephone company for details about availability in your area, and to verify that Visual Call Waiting service is activated on your telephone line.

Advanced Operation

Special Features

Call Waiting Deluxe Service **Handset**

This unit is compatible with the Call Waiting Deluxe service offered by your telephone company.

- Availability varies by telephone provider. Contact your telephone company to confirm availability in your area.

After subscribing, Call Waiting Deluxe service not only allows your handset to display the second caller's information, but also offers you a variety of ways to deal with a second call (p. 39).

Before using Call Waiting Deluxe, program the "C.WTG (Call Waiting) options" mode to be on.

- Please contact your telephone company for details and availability in your area.

To turn the "C.WTG (Call Waiting) options" mode on

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Initial setting

3 Scroll to "Set tel line" by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Set tel line

4 Scroll to "C.WTG options" by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

C.WTG options

5 Select "On" by pressing **[▼]** or **[▲]**.

C.WTG options
:On

6 Press the soft key **(SAVE)**, then press **[OFF]**.

To turn the "C.WTG (Call Waiting) options" mode off, select "Off" by pressing **[▼]** or **[▲]** in step 5.

Special Features

To use Call Waiting Deluxe Service

You can choose from the options on the display as shown below.

Display	Function
Ans (Answer)	Answers the second call, while keeping the first call on hold.
Hold	The second call is put on hold. The caller will hear the pre-recorded hold message played by the telephone company.
Annc (Announcement)	Plays the pre-recorded busy message from the telephone company for the second caller (e.g. "We are not available now.") and hangs up the second call.
Fwd (Forward)	Forwards the second call to your voice mail if you subscribe to a voice mail service (p. 33).
Drop	Hangs up the current call and answers the waiting call.
Conf (Conference)	Answers the second call and combines it with the first call to make it a conference call. During a conference call , you can choose either "Drop caller1" or "Drop caller2" to hang up the first or second call.
Return	Returns to the waiting caller while keeping the current call on hold.

- Your telephone company may not offer all of the above options. Contact your telephone company for details.

- 1 When you hear a call waiting tone while talking, the second caller's information is displayed.
Press **[FLASH/CALL WAIT]**.
 - The option menu is displayed.

BROWN, NANCY
555-666-7777
----Waiting----

- 2 Enter a displayed option number (1 to 6) to select the desired option.
 - The length of the call is displayed.
 - You can also select the desired option by pressing **[▼]** or **[▲]** until the option flashes, then pressing **[FLASH/CALL WAIT]**.

1=Ans 4=Fwd
2=Hold 5=Drop
3=Annc 6=Conf
▼▲ CALLWAIT=OK

Advanced Operation

Special Features

After selecting “Ans” (Answer) or “Hold”:

You can choose one of the following options:

“Return”—to return to the waiting call.

“Drop”—to hang up the current call and answer the waiting call.

“Conference”—to make it a conference call.

1. Press **[FLASH/CALL WAIT]** to display the option menu.
2. Enter a displayed option number (1 to 3) to select the desired option.

```
1=Return
2=Drop
3=Conference
▼▲ CALLWAIT=OK
```

- If “Return” is selected, you will return to the waiting call. Repeat steps 1 and 2 to select another option.

After selecting “Conf” (Conference) or “Conference”:

You can choose one of the following options:

“Drop caller1”—to hang up the first call.

“Drop caller2”—to hang up the second call.

1. Press **[FLASH/CALL WAIT]** to display the option menu.
2. Enter a displayed option number (1 to 2) to select the desired option.

```
1=Drop caller1
2=Drop caller2
▼▲ CALLWAIT=OK
```

- In step 2, you can also select the desired option by pressing **[▼]** or **[▲]** until the option flashes, then pressing **[FLASH/CALL WAIT]**.
- To cancel the option menu, wait for 20 seconds. The handset display will return to show the length of the call.
- Call Waiting cannot be used when a parallel connected telephone is in use.
- If this function does not operate properly, consult your telephone company for details.

Special Features

FLASH Button **Handset**

Pressing **[FLASH/CALL WAIT]** allows you to use special features of your host PBX such as transferring an extension call, or accessing optional telephone services such as Call Waiting.

- Pressing **[FLASH/CALL WAIT]** cancels mute or the Temporary Tone Dialing mode (p. 36).

Selecting the flash time **Handset**

The flash time depends on your telephone exchange or host PBX.

You can select the following flash times: "700, 600, 400, 300, 250, 110, 100 or 90 ms (milliseconds)". The factory preset is "700 ms".

- If PBX functions do not work correctly, consult your PBX supplier for the correct settings.

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Initial setting

3 Scroll to "Set tel line" by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Set tel line

4 Scroll to "Set flash time" by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Set flash time

5 Select the flash time by pressing **[▼]** or **[▲]**.

Set flash time
:700ms

6 Press the soft key **(SAVE)**, then press **[OFF]**.

Advanced Operation

Special Features

Key Tone **Handset**

You can select whether or not the handset keys will sound tones (key tone, confirmation tone, error tone). The factory preset is ON.

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Initial setting

3 Scroll to "Key tone" by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Key tone

4 Select "Off" or "On" by pressing **[▼]** or **[▲]**.

Key tone
:On

5 Press the soft key **(SAVE)**, then press **[OFF]**.

Re-registering the Handset **Handset & Base Unit**

If "No link to base. Move closer to base and try again." is displayed even when using the handset near the base unit, the handset may have lost communication with the base unit. You need to re-register the handset to that base unit.

- Have both the handset and base unit nearby during registration.
- Follow steps 1 and 2 listed below. You have about 1 minute to complete them.

1 *Base unit:* Press and hold **[LOCATOR]** for 3 seconds.

- The CHARGE indicator flashes.

2 *Handset:* Press and hold **[FLASH/CALL WAIT]** until "Handset Registering" is displayed.

- After registration is complete, a long beep sounds from the handset.

Handset
Registering

↓

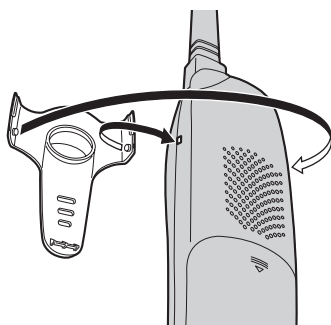
Handset [1]
Registered

- If the handset beeps 3 times and "Error!!" is displayed, an error occurred. Try again from step 1.
- You can stop registration by pressing **[OFF]** on the handset and pressing **[LOCATOR]** on the base unit.

Belt Clip

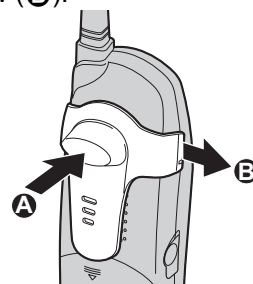
You can hang the handset on your belt or pocket using the included belt clip.

To attach the belt clip



To remove the belt clip

While pressing the top of the clip (A), pull the right edge in the direction of the arrow (B).

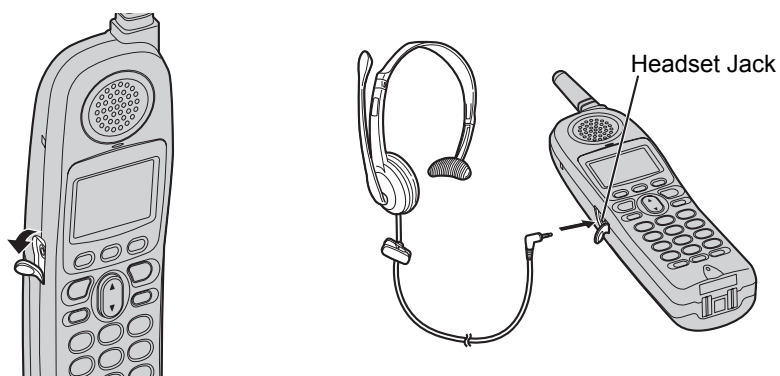


Optional Headset

Connecting an optional headset to the handset allows hands-free phone conversation. Please only use a Panasonic KX-TCA86, KX-TCA91 or KX-TCA92 headset.

Connecting an optional headset

Open the headset jack cover and insert the headset plug into the headset jack as shown below.



- Headset sold separately. Model shown here is KX-TCA86.

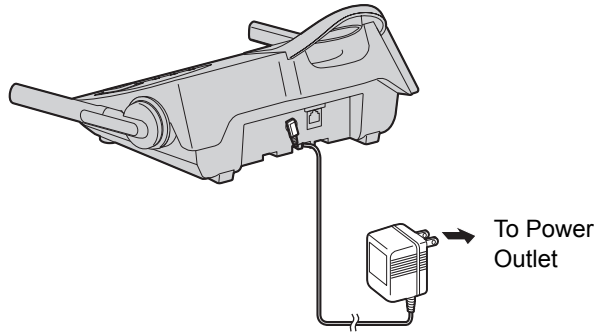
To switch to the speakerphone while using the headset:

Press [⏏]. To return to the headset, press [📞].

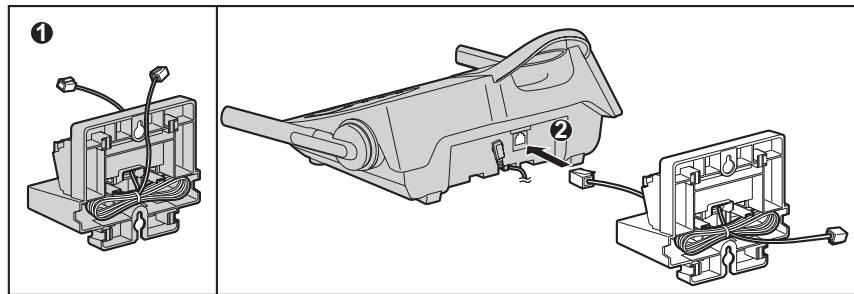
Wall Mounting

This unit can be mounted on a wall phone plate.

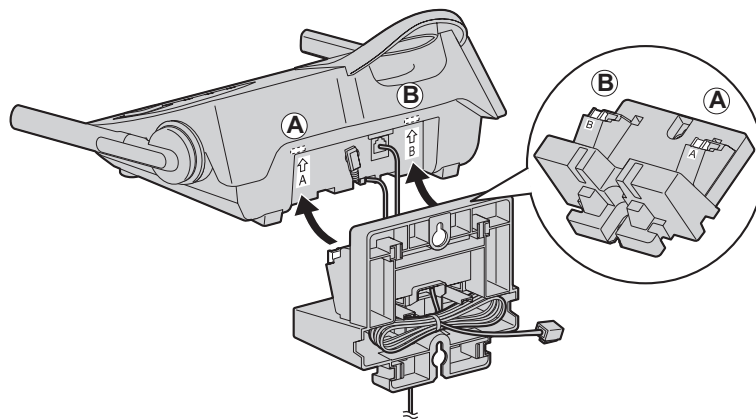
- 1 Connect the AC adaptor.



- 2 Tuck the telephone line cord inside the wall mounting adaptor (1). Connect the telephone line cord (2).

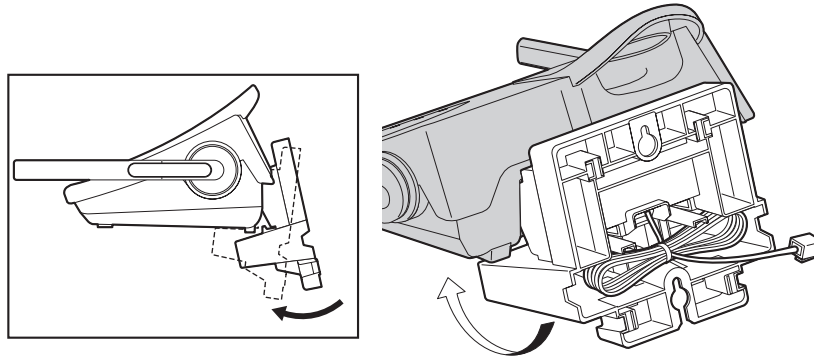


- 3 Insert the hooks on the wall mounting adaptor into holes (A) and (B) on the base unit.

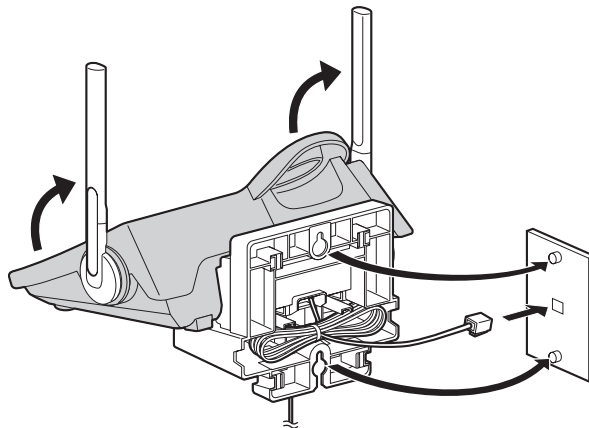


Wall Mounting

- 4** Adjust the adaptor to hold the base unit, then push it in the direction of the arrow until it clicks into place.



- 5** Connect the telephone line cord. Mount the unit, then slide it down.
• Raise the antennas.

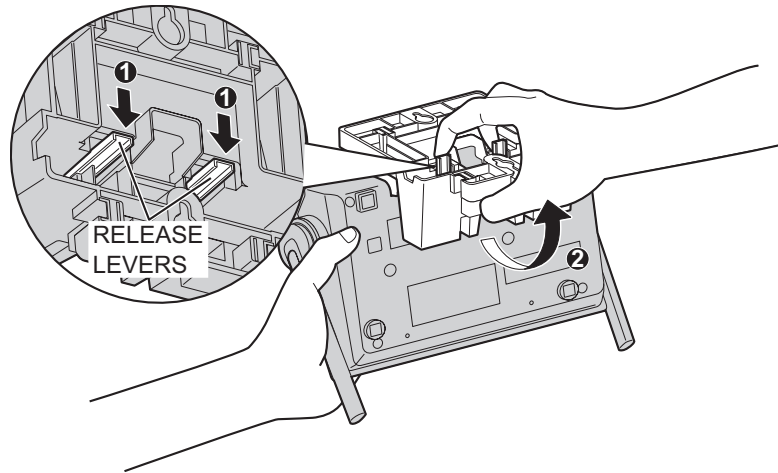


- 6 To charge the handset battery:**
Place the handset on the base unit.
• The unit beeps once and the CHARGE indicator lights.

Wall Mounting

To remove the wall mounting adaptor

While pushing down the RELEASE LEVERS (①) remove the adaptor (②).



Direct Commands

Handset

After pressing **[MENU]**, you can also program menu items directly by pressing **[0]** to **[9]**, and **[#]** instead of using the soft keys.

Menu item	Command	Selection items	Page
Ringer volume	[1] [1]	[0] : Off [1] : Low [2] : Medium [3] : High	p. 16
Ringer tone	[1] [2]	[1]–[3] : Tone pattern 1–3 [4]–[7] : Melody pattern 1–4	p. 17
Voice enhancer	[5]	[1] : On [0] : Off	p. 21
LCD contrast	[0] [1]	[1]–[6] : Level 1–6	p. 18
Key tone	[0] [2]	[1] : On [0] : Off	p. 42
Auto talk	[0] [3]	[1] : On [0] : Off	p. 15
Set dial mode	[0] [5] [1]	[1] : Pulse [2] : Tone	p. 14
Set flash time	[0] [5] [2]	[1] : 700 ms [2] : 600 ms [3] : 400 ms [4] : 300 ms [5] : 250 ms [6] : 110 ms [7] : 100 ms [8] : 90 ms	p. 41
Set line mode	[0] [5] [3]	[1] : A [2] : B	p. 15
Call Waiting options	[0] [5] [4]	[1] : On [0] : Off	p. 38
Store VM access#	[0] [7] [1]	Go to Step 5 on page 33.	–
VM tone detect	[0] [7] [2]	[1] : On [0] : Off	p. 34
Change language	[0] [8]	[1] : English [2] : French	p. 14
Message alert	[0] [#]	[1] : On [0] : Off	p. 18

During programming:

When "**SAVE**" is displayed, press the right soft key **to save the new settings**.

To exit programming, press **[OFF]**.

- If you press the direct command incorrectly, press **[OFF]**, then re-enter programming mode by pressing **[MENU]**.
- For function details, see the corresponding pages.

If the Following Appears on Your Display...

The following will be displayed when the unit needs your attention.

Display message	Cause & Remedy
Recharge battery	<ul style="list-style-type: none"> The battery needs to be charged. Recharge the battery (p. 11).
Charge for 6 HRS	<ul style="list-style-type: none"> The battery has been discharged. The handset will not work. Fully charge the battery (p. 10).
No link to base. Move closer to base and try again.	<ul style="list-style-type: none"> The handset has lost communication with the base unit. Walk closer to the base unit and try again or re-register the handset (p. 42). Confirm that the base unit's AC adaptor is plugged in. Raise the base unit antennas.
Please lift up and try again.	<ul style="list-style-type: none"> A handset button was pressed while the handset was on the base unit. Lift the handset and press the button again.
Error!!	<ul style="list-style-type: none"> When you tried to re-register the handset, the handset and base unit could not link for some reason, such as interference from electrical appliances. Move the handset and base unit away from any electrical appliances and try again.
Phone book full	<ul style="list-style-type: none"> When you tried to store an item in the phone book, the phone book memory was full. Press [OFF] to exit programming mode. To erase other items from the phone book, see page 32.
Store VM access#	<ul style="list-style-type: none"> A voice mail access number is not stored. Store the number (p. 33).
System is busy. Please try again later.	<ul style="list-style-type: none"> The handset has lost communication with the base unit. Walk closer to the base unit and try again.

Troubleshooting

If the handset display shows error messages, see “If the Following Appears on Your Display...” (p. 48) for the Cause & Remedy.

Problem	Cause & Remedy
“No link to base. Move closer to base and try again.” is displayed and an alarm tone sounds.	<ul style="list-style-type: none"> • The handset has lost communication with the base unit. Walk closer to the base unit, and try again. • Confirm that the base unit's AC adaptor is plugged in. • Raise the base unit antennas. • If the above remedies do not solve the problem, the handset may have lost communication with the base unit. Register the handset again (p. 42).
The handset and/or base unit does not work.	<ul style="list-style-type: none"> • Check the settings (p. 9–11). • Check whether the dialing mode setting is correct (p. 14). • Fully charge the battery (p. 10). • Clean the charge contacts and charge again (p. 11). • Check battery installation (p. 10). • Unplug the base unit's AC adaptor to reset it. Plug in, and try again. • Re-install the battery (p. 10) and fully charge it.
Static, sound cuts in/out, fades. Interference from other electrical units.	<ul style="list-style-type: none"> • Move the handset and base unit away from other electrical appliances (p. 3). • Walk closer to the base unit. • Raise the base unit antennas. • Turn on the Clarity Booster feature (p. 21). • If the unit is connected to a telephone line with DSL service, you may hear noise from the receiver or speaker during conversations. We recommend the addition of a noise filter (contact your DSL service provider) to the telephone line between the base unit and the telephone line jack.
The handset does not ring.	<ul style="list-style-type: none"> • The ringer volume is turned off. Set to high, medium, or low (p. 16).
The handset display is blank.	<ul style="list-style-type: none"> • If the handset display is blank, fully charge the battery (p. 10).

Troubleshooting

Problem	Cause & Remedy
You cannot program any function items.	<ul style="list-style-type: none"> • Programming is not possible while the handset is being used. • Do not pause for over 60 seconds while programming. • Walk closer to the base unit.
While programming or searching, the handset starts to ring and the program/search stops.	<ul style="list-style-type: none"> • A call is coming in. To answer the call, press [↶] or [↷]. Start again from the beginning after hanging up.
You cannot redial.	<ul style="list-style-type: none"> • If the last number dialed was more than 48 digits long, the number will not be redialed correctly.
You cannot make long distance calls.	<ul style="list-style-type: none"> • Please make sure that you have long distance service.
The handset does not display the caller's name and/or phone number.	<ul style="list-style-type: none"> • You need to subscribe to Call Display service. • Other telephone equipment may be interfering with your phone. Disconnect it and try again. • Other electrical appliances connected to the same outlet may be interfering with Call Display. • Telephone line noise may be affecting Call Display. • The caller requested not to send his/her caller information (p. 23). • If a (separate) Call Display box is connected between the base unit and the telephone wall jack, disconnect the Call Display box or plug the unit directly into the wall jack. • If the unit is connected to a telephone line with DSL service, the unit may not display caller's name and/or phone number properly. We recommend the addition of a noise filter (contact your DSL service provider) to the telephone line between the base unit and the telephone line jack.
The handset display exits the Caller List or phone book.	<ul style="list-style-type: none"> • Do not pause for over 60 seconds while searching.

Troubleshooting

Problem	Cause & Remedy
"Recharge battery" is displayed, "■" flashes, or the handset beeps intermittently.	<ul style="list-style-type: none">Fully charge the battery (p. 10).
"Charge for 6 HRS" and "■" are displayed and the handset does not work.	<ul style="list-style-type: none">The battery has been discharged. Fully charge the battery (p. 11).
You charged the battery fully, but "Recharge battery" is still displayed and/or "■" continues to flash, or "Charge for 6 HRS" and "■" are displayed.	<ul style="list-style-type: none">Clean the charge contacts and charge again (p. 11).The battery may need to be replaced. If you install a new battery, fully charge it (p. 10, 11).
The CHARGE indicator does not go out after the battery has been charged.	<ul style="list-style-type: none">This is normal.
The Ringer/Message Alert indicator flashes slowly when the handset is not ringing or in use.	<ul style="list-style-type: none">The Message Alert is turned on and new messages in your voice mailbox have been recorded. Turn the Message Alert off (p. 18) or listen to the new messages (p. 35).
You cannot have a conversation using the headset.	<ul style="list-style-type: none">Make sure the optional headset is connected properly (p. 43).If "SP-phone" is displayed on the handset, press [↵] to switch to the headset.

Important Information

NOTICE:

This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, "IC:", before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment.

And, the term "IC:" signifies that Industry Canada radio technical specifications were met.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure, for their own protection, that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution:

Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

NOTICE:

The **Ringer Equivalence Number** (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

The Ringer Equivalence Number (REN) of This Unit:
(found on the bottom of the unit).

NOTICE:

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Privacy of communications may not be ensured when using this telephone.

Some cordless telephones operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the cordless telephone should not be placed near, or on top of, a TV or VCR. If interference is experienced, move the cordless telephone further away from the TV or VCR. This will often reduce, or eliminate, interference.

Operating near 5.8 GHz electrical appliances may cause interference. Move away from the electrical appliances.

Safety Instructions

Take special care to follow the safety suggestions listed below.

Safety

- 1) The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit.
- 2) When left unused for a long period of time, the base unit should be unplugged from the household AC outlet.

Installations

Environment

- 1) Do not use this unit near water — for example, near a bathtub, washbowl, sink, etc. Damp basements should also be avoided.
- 2) The unit should be kept away from heat sources such as radiators, kitchen ranges, etc. It also should not be placed in rooms where the temperature is less than 5°C (41°F) or greater than 40°C (104°F).
- 3) The AC adaptor is used as the main power source. Ensure that the AC outlet is located/installed near the unit and is easily accessible.

Placement

- 1) Do not place heavy objects on top of this unit.
- 2) Care should be taken so that objects do not fall onto, and liquids are not spilled into, the unit. Do not subject this unit to excessive smoke, dust, mechanical vibration or shock.
- 3) Place the unit on a flat surface.

For best performance

- 1) If noise prevents the conversation from being understood on the handset, approach the base unit to lessen the noise.
- 2) The handset should be used at the HIGH volume setting when the reception is poor.
- 3) The handset should be fully recharged on the base unit when "Recharge battery" is displayed and/or "■" flashes on the display.
- 4) The handset antenna should not be touched during use because of its high sensitivity.
- 5) The maximum calling distance may be shortened when the unit is used in the following places: Near obstacles such as hills, tunnels, underground, near metal objects such as wire fences, etc.

Medical

Consult the manufacturer of any personal medical devices, such as pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. (The unit operates in the frequency range of 5760 MHz to 5840 MHz, and the power output level can range from 0.25 watts to 0.5 watts.) Do not use the unit in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.

Safety Instructions

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

If there is any trouble, disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the specified authorized Panasonic Factory Servicentres. If the known working phone does not operate properly, consult your telephone company.

Specifications

■ Handset

Power Supply:	Ni-MH battery (3.6 V, 830 mAh)
Frequency:	5.76 GHz – 5.84 GHz
Dimensions (H x W x D):	Approx. 220 mm x 53 mm x 37 mm (8 ²¹ / ₃₂ " x 2 ³ / ₃₂ " x 1 ¹⁵ / ₃₂ ")
Mass (Weight):	Approx. 210 g (0.46 lb.)
Security Codes:	1,000,000

■ Base Unit

Power Supply:	AC adaptor (120 V AC, 60 Hz)
Power Consumption:	Standby: Approx. 2.3 W Maximum: Approx. 5.5 W
Frequency:	5.76 GHz – 5.84 GHz
Dimensions (H x W x D):	Approx. 107 mm x 214 mm x 135 mm (4 ⁷ / ₃₂ " x 8 ⁷ / ₁₆ " x 5 ⁵ / ₁₆ ")
Mass (Weight):	Approx. 340 g (0.75 lb.)

■ **Dialing Mode:** Tone (DTMF)/Pulse

■ **Operating Environment:** 5 °C – 40 °C (41 °F – 104 °F)

Specifications are subject to change without notice.

Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario L4W 2T3

PANASONIC PRODUCT—LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship and agrees to remedy any such defect for a period as stated below from the date of original purchase.

Telephone Accessory/Product
FRS (Family Radio Service) Product

—One (1) year, parts and labour
 —One (1) year, parts and labour

LIMITATIONS AND EXCLUSIONS

This warranty does not apply to products purchased outside Canada or to any product which has been improperly installed, subjected to usage for which the product was not designed, misused or abused, damaged during shipping, or which has been altered or repaired in any way that affects the reliability or detracts from the performance, nor does it cover any product which is used commercially. Dry cell batteries are also excluded from coverage under this warranty. Rechargeable batteries are warranted for ninety (90) days from date of original purchase.

This warranty is extended to the original end user purchaser only. A purchase receipt or other proof of date of original purchase is required before warranty service is performed.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, EXCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

WARRANTY SERVICE

For product operation and information assistance, please contact your Dealer or our Customer Care Centre at:

Telephone #: (905) 624-5505 Fax #: (905) 238-2360 Web: www.panasonic.ca

For product repairs, please contact one of the following:

- Your Dealer who will inform you of an authorized Servicentre nearest you.
- Our Customer Care Centre at (905) 624-5505 or www.panasonic.ca
- A Panasonic Factory Servicentre listed below:

Richmond, British Columbia

Panasonic Canada Inc.
 12111 Riverside Way
 Richmond, BC V6W 1K8
 Tel: (604) 278-4211
 Fax: (604) 278-5627

Calgary, Alberta

Panasonic Canada Inc.
 6835-8th St. N. E.
 Calgary, AB T2E 7H7
 Tel: (403) 295-3955
 Fax: (403) 274-5493

Mississauga, Ontario

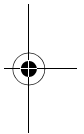
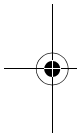
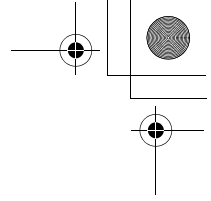
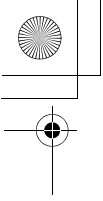
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IF YOU SHIP THE PRODUCT TO A SERVICENTRE

Carefully pack and send prepaid, adequately insured and preferably in the original carton. Include details of the defect claimed, and proof of date of original purchase.



Panasonic Canada Inc.

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